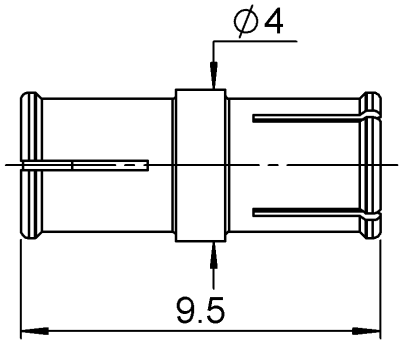
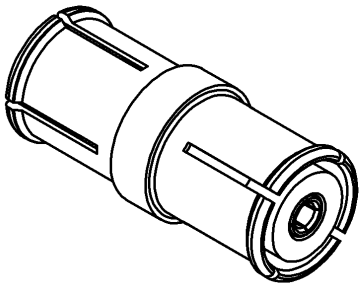
Technical Data Sheet

STRAIGHT FEMALE-FEMALE ADAPTER STRAIGHT JACK RECEPTACLE

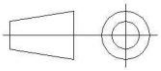
PAGE 1/3	ISSUE **08-11-16A**	SERIES **SMP-MAX**	PART NUMBER **R222M40010**



Scale:1/1



All dimensions are in mm.



COMPONENTS	MATERIALS	PLATING (µm)
Body	**BERYLLIUM COPPER**	**NPGR**
Center contact	**BERYLLIUM COPPER**	**NPGR**
Outer contact		
Insulator	**PTFE**	
Gasket		
Others parts		
-	-	-
-	-	-

PACKAGING

Standard	Unit	Other
100	**Contact us**	**Contact us**

ELECTRICAL CHARACTERISTICS

Impedance	**50**	Ω
Frequency	**0 - 10**	GHz

VSWR (max.) / Return Loss (max.)

DC - 2 GHz	2 – 4 GHz	4 – 6 GHz
1.07 / -30dB	1.12 / -27dB	1.14 / -24dB

Insertion loss	**< 0.05***	√F(GHz) dB
RF leakage - (	**NA**	- F(GHz)) dB Maxi
Voltage rating	**335**	Veff Maxi
Dielectric withstanding voltage	**1000**	Veff mini
Insulation resistance	**5000**	MΩ mini

MECHANICAL CHARACTERISTICS

Center contact retention		
Axial force – Mating End	**7**	N mini
Axial force – Opposite end	**7**	N mini
Torque	**NA**	N.cm mini
Radiall working range	**0.0000**	mm

Warning: To ensure a blind mate assembly, please check the pull-in range of the mating receptacle.

Recommended torque		
Mating	**NA**	N.cm
Panel nut	**NA**	N.cm
Mating life	**100**	Cycles mini
Weight	**0.2840**	g

ENVIRONMENTAL

Operating temperature	**-55/+165**	°C
Hermetic seal	**NA**	Atm.cm3/s
Panel leakage	**NA**	

SPECIFICATION

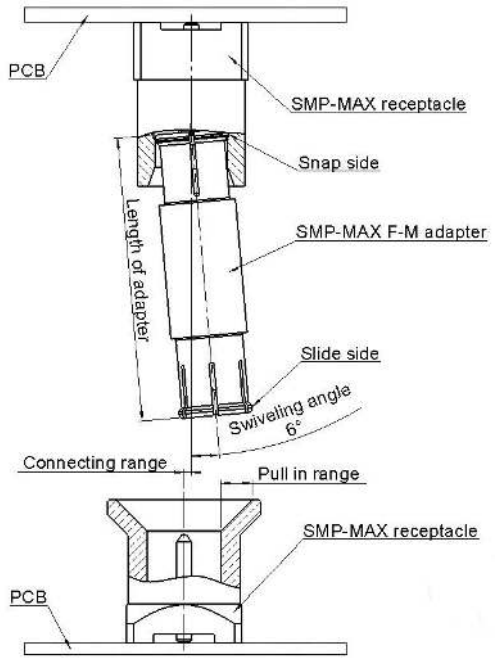
OTHER CHARACTERISTICS

Assembly instruction:

Others:
*Coaxial Transmission Line Only
Radial working angle: 3°min
Axial working range : 2mm

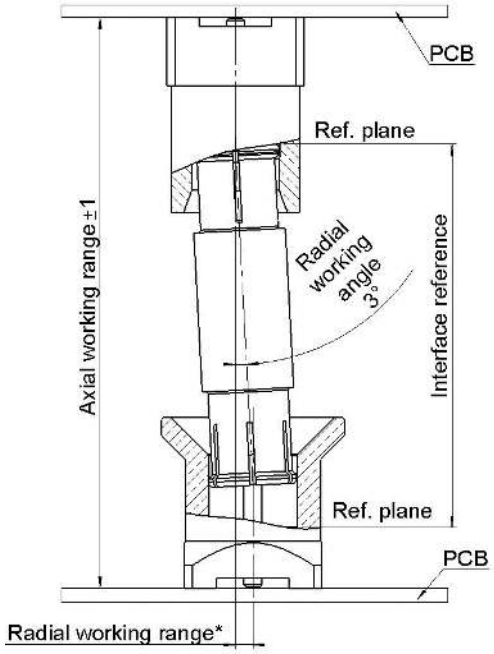
GENERAL DATA OF SMP-MAX SERIE

SMP-MAX connecting range



The connecting range represents the maximum misalignment during connection.
The swiveling angle is the maximum possible angle of the adapter in a snap receptacle.
A blind assembly is guaranteed if radial misalignment is smaller than connecting range. Otherwise a manual lead-in is necessary.

SMP-MAX radial and axial working range



Electrical performance is achieved when radial and axial misalignments are within their working ranges.
Radial working range = (length of the adapter) x Sinus(radial working angle)

Typical RF performances for a set:
slide receptacle + adapter + snap receptacle (receptacles soldered on boards):

V.S.W.R / Return loss	Misalignment	DC - 3 GHz	3 - 6 GHz
	Radial 0°, Axial 0mm	<1.15/-23.9 dB	<1.25/-19.10 dB
	Radial 0°, Axial +/-1mm	<1.20/-20.8 dB	<1.35/-16.5 dB
	Radial 3°, Axial 0mm	<1.15/-23.1 dB	<1.25/-19.1 dB
	Radial 3°, Axial +/-1mm	<1.20/-20.8 dB	<1.35/-16.5 dB
Insertion loss	Misalignment	DC - 3 GHz	3 - 6 GHz
	Radial 0°, Axial 0mm	<0.10 dB	<0.15 dB
	Radial 0°, Axial +/-1mm	<0.12 dB	<0.25 dB
	Radial 3°, Axial 0mm	<0.10 dB	<0.15 dB
	Radial 3°, Axial +/-1mm	<0.12 dB	<0.25 dB
handling power	>300W@2.7GHz at 25°C; >200W@2.7GHz at 85°C		